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***** PROTISTOLOGY

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EMAIL NEWSLETTER no. 6 - 16 October 1995
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1) Editor's Note
Charley O'Kelly, Newsletter Editor
cokelly@nsf.gov

We're back!

Regrettably, I had been unable to keep up with Newsletter duties due to a (northern) summer hiatus from science. Now that I've returned, things should flow a bit more smoothly.

My new address (also found in the Officers list of the ISEP World Wide Web archive):

Division of Environmental Biology
National Science Foundation
4201 Wilson Boulevard, Room 635
Washington, DC 22230
USA
tel: (1) 703 306 1481, ext. 6417
fax: (1) 703 306 0367
email: cokelly@nsf.gov

this oughta be a change from New Zealand :-).

Despite the gap in communication, we've not been entirely idle.

As you'll see below, we've assembled what we hope is an up-to-date membership list; we ask for your help in getting and keeping this list current and correct ... and whether you think the list should be archived on the World Wide Web.

The Web site itself is full of new links, especially to funding sources (Money Hunt page) and meetings (Upcoming Meetings page: a new trend emerging?). If you've not visited lately, check it out.

A number of our Officers and Members have changed, or are about to change, locations or communication information.

As always, if you have a bit of news to share, please send it along.

Hope all's well with you and yours!

2) President's Message
Mark Ragan
mark@imb.Lan.nrc.ca

Dear colleagues,

Summer has gone (at least for those of us in the northern latitudes), and we've passed the halfway point between ISEP-10 and ISEP-11. It's not too soon to reserve 9-13 August 1996 on your calendar for ISEP-11 in Cologne (Koeln), Germany. For more information contact ISEP-11 organizer Michael Melkonian and watch ISEP's newsletters and Web site.

ISEP is indeed wired into the Infobahn: check out our Website at if you haven't done so already. Copies of our newsletter, information on upcoming conferences, addresses and phone numbers of our officers and more, all made from 100% guaranteed recycled electrons, are posted there.

For those of you who haven't visited our Website, this is our sixth newsletter since ISEP-10. In addition to being posted on the ISEP Website, these newsletters have been e-mailed to all ISEP members for whom we have a functioning e-mail address. We're fortunate in having a plugged-in membership, so almost everyone should have received the newsletters. However, a few members aren't reachable by e-mail, and for those of you who haven't alternatively logged into our Website: yes, ISEP is still alive and well, and I personally apologize for the lack of contact you may have had with us over the past year.

At long last we have what we believe is a complete, up-to-date list of the ISEP membership with each member's name, postal address, office telephone and fax numbers, e-mail address, and date of expiry. It would make a lot of sense for this list to be posted on our Website, e.g. as <.../members.html>. Yet there's a privacy issue here -- perhaps you don't want your phone number listed on the Internet (mine has been listed there for a year, and no-one has phoned to sell me encyclopedias or hot modems...). Anyone feeling strongly about this matter (positively or negatively) should e-mail Charley O'Kelly or myself:

What information about members should be posted on our Website?

name.	Yes	___	No	___
institutional postal address.	Yes	___	No	___
institutional telephone number.	Yes	___	No	___
institutional fax number.	Yes	___	No	___
e-mail address.	Yes	___	No	___
date of expiry of ISEP membership . . .	Yes	___	No	___

Is there other information that we should be posting on the ISEP Website? If so, send your suggestions to Charley or me.

We also have a list (names only) of people whose ISEP membership has expired. Although it includes the names of many illustrious protistologists (even some current officers of ISEP!), inclusion on this list shouldn't be your goal. Membership dues support our newsletter other activities, help us publicize upcoming meetings, and provide a little insurance against contingencies. Elsewhere in this newsletter you'll find a list of names of paid-up members. If your name isn't on this list, your membership has probably expired; please contact our Treasurer, Gary Saunders (gws@unb.ca).

You'll notice from the address above that Gary Saunders has completed his move from Melbourne to Fredericton, New Brunswick.

[Details in the News of Colleagues section of this Newsletter, and on the Officers page of the ISEP WWW archive - Ed.]

During the next few weeks the Treasurer's responsibilities will gradually shift from Jerry Motta, who's provided exemplary service for numerous years, to Gary. On behalf of all ISEPs, here's a hearty Thank You to Jerry!

In other news, Sue Douglas (Canadian councillor) and I have been delighted to have ISEP's Councillor-at-large, Geoff McFadden, with us here in Halifax for the past several months.

Gustav Fischer Verlag (Villengang 2, 07745 Jena, Germany), publisher of the special ISEP-10 issue of Archiv fur Protistenkunde (edited by Tom Cavalier-Smith, Michael Melkonian and Steve Moss), informs me that they still have plenty of copies of the special issue for sale to ISEP members and ISEP-10 registrants at the special price of DM 82. Their fax number is (49)-3641-626500.

Similarly, I still have a few copies of the ISEP-10 group photo. Drop me an e-mail if you want one (no cost).

At ISEP-10, the Executive asked me, in my role as Manager of ISEP's "head office" (a semi-formality for purposes of our incorporation as a legal entity), to begin to assemble a library of past ISEP special issues. Our ISEP library now contains one shiny new issue of the ISEP-10 special issue; donations of unused or duplicate copies of previous ISEP special issues, or indeed other historical information pertaining to ISEP, would be welcome.

The Executive also asked me to prepare plaques or scrolls for our newly elected Honorary Life Members, John O. Corliss and I. Brent Heath. I'm embarrassed to admit that I haven't arranged these yet, but promise to do so in time for ISEP-11 (if not before).

If there are any suggestions, comments or other feedback about ISEP or matters protistological, don't hesitate to contact me or any other member of the ISEP Executive. That's why we're here!

*****'

3) ISEP Members List

ISEP Executive Committee

If you've gotten this Newsletter via email or WWW, and you're name's not here, we don't have you on record as a currently (through June 1995) paid-up member. This doesn't necessarily mean you haven't paid, only that we don't have a record of it :-).

We welcome your membership! please contact me (cokelly@nsf.gov) or Mark Ragan (mark@imb.Lan.nrc.ca) to check on your status.

New members always welcome!

BAKKER-GRUNWALD Tilly
BARR Donald J.S.
BLACKWELL Meridith
BLANCHARD Jeffrey
BURGER Gertraud
CAVALIER-SMITH Thomas
CHAPMAN, David J.
CHAPMAN Russell L.
CORLISS John O.
DELWICHE Charles F.
DEMOULIN Vincent
DINET Marie-Joseph
DOLAN Michael
DYER Betsey
FARMER Mark A.
FEAGIN Jean
FERNANDEZ-LEBORANS Gregorio
FERRIS Patrick
FISHER Karen
GABRIELSON Paul W.
GIBBS Sarah P.
GOGGIN C. Louise
GRAY Michael W.
GUILLEMETTE Tracy
HACKSTEIN Johannes H.P.
HALLICK Richard B.
HANNAERT Veronique
HASHIMOTO Tetsuo
HEATH I. Brent
HEYWOOD Peter
HUFNAGEL Linda
HRDY Ivan
KERK David
KISSINGER Jessica C.
KLASSEN Glen R.
KLAVENESS Dag
KUGRENS Paul
LANG B. Franz
LANG-UNNASCH Naomi E.
LIPSCOMB Diana
LITTLEJOHN Tim
LONGCORE Joyce E.
LUDUENA Richard F.
LYNN Denis H.
MAIER Uwe-G.
MARGULIS Lynn
MARTIN William
McFADDEN Geoff
McQUADE A. Bruce
MELKONIAN Michael
MERINFELD E. Georges
MICHELS Paul A.M.
MIGNOT Jean-Pierre
MOTTA Jerome J.
MuLLER Bodo E.G.
MuLLER Miklos
NERAD Thomas A.
O'KELLY Charles
OLENDZENSKI Lorraine
PALMER Jeff
PATTERSON David J.
PIENAAR Richard N.
POLIKARPOV Igor G.
PREISIG Hans R.
PRESCOTT David M.
PRZYBOS Ewa
PUESCHEL Curt M.
RAGAN Mark A.
ROBERTS Keith R.

ROTHSCHILD Lynn J.
SAUNDERS, Gary W.
SCHLEGEL Martin
SENSEN, Christoph
SIDALL Mark E.
SILFLOW Carolyn D.
SLEIGH Michael A.
TAN Lor-wai
TAYLOR F.J.R. "Max"
TEAL Thomas
THOMPSON Michael
THOMSEN Helge A.
TURMEL Monique
TURNER Sean
VAN DER AUWERA Gert
WALNE Patricia
WEE James
WILSON R.J.M. (Iain)
WRIGHT Andre-Denis G.
ZACKROFF Robert
ZAHN R.K.
ZHOU Yi-Hong

4) Annual Meeting 1995
Mark Ragan
mark@imb.Lan.nrc.ca

ISEP's articles of incorporation and by-laws require us to hold an Annual Meeting. The 1994 meeting was, of course, held during ISEP-10, as the 1996 meeting will be during ISEP-11. In intervening years, the Annual Meeting takes the form of a telephone conference call among the Canadian counsellors (ISEP is incorporated in Canada). Sue Douglas, Franz Lang and I shall therefore be teleconferencing on Friday, 8 December 1995 at 11:30 AM (Halifax time) -- 10:30 AM (Montreal time). Sue, Franz or I would be glad to put on the agenda any specific items raised by any member of ISEP. Indeed, the "meeting" is open to any member of ISEP who wishes to link in. Please contact me for further details .

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5) ISEP-12: Asilomar!
ISEP Executive Committee

The votes are in, and the decision's taken. ISEP-12, in 1998, will be held at Asilomar, California. Lynda Goff and Lynn Rothschild (listed in alphabetical order) will be the martyr ... er, organizers. Congratulations!

The Exec has asked Lynda and Lynn to set the date for the meeting, put together a provisional Organizing Committee, draft a tentative theme with schedule and speakers, and present a road show at ISEP-11.

We had three excellent bids to choose from - Athens, Georgia (Mark Farmer), and Australia (Melbourne vicinity; Geoff McFadden) were the other two - and the vote was a close one. Hey, at least you guys get to relax and -enjoy- the meeting now. Many thanks for your labors.

6) PHYLIP on World Wide Web
Joe Felsenstein, Department of Genetics,
University of Washington, Box 357360,
Seattle, WA 98195-7360, USA

joe@genetics.washington.edu

[from the bionet.molbio.evolution Usenet newsgroup - Ed.]

We have set up a World Wide Web (WWW) site for the PHYLIP Phylogeny Inference Package. It describes various aspects of the package and its distribution, and allows the user to download the latest distributions and register as a user.

Its URL is: <http://evolution.genetics.washington.edu/phylip.html>

Graphical net-browsers such as Netscape and Mosaic should be able to take full advantage of its features, but character-oriented browsers such as Lynx may not be able to.

[Shortly, I will build into the ISEP WWW Archive a separate page providing links to online resources for phylogenetic analysis. Joe's page will be on it. - Ed.]

7) Phycological Society of America Listserver

Paul Kugrens
Professor, Department of Biology
Colorado State University
Fort Collins, CO 80523
email: pkugrens@lamar.colostate.edu
tel: (1) 970 491 7551
fax: (1) 970 491 0649

The Phycological Society of America has established a subscription list on the Internet using ListServ at Colorado State University to facilitate conducting society related business and other functions among its members. Currently, membership includes only PSA members, and this initial subscription list contains all PSA members for whom correct E-mail addresses are known. The Executive Committee decided at this year's meeting that membership on this list will not be restricted to PSA members and non-members are welcome to join. The PSA list is intended to facilitate communications among members to conduct society business more efficiently and to promote interactions among members by sending announcements, job opportunities, new book descriptions, registration information and forms for meetings, and possibly abstracts of the annual meeting. Currently there are more than 590 members on our list. The list is not moderated (censored), therefore some self restraint should be exercised in your comments and replies. Membership is not obligatory, and any member can subscribe or unsubscribe at any time by following the simple instructions provided in the information section of this message. Instructions on sending messages are also provided. Please save these instructions for future reference.

One of the primary functions of ListServ is to provide a mechanism for distributing mail messages to a group of people sharing a common interest. Furthermore, ListServ distribution lists are an effective way to manage dynamic mailing lists of a large number of recipients.

Once a list is established anyone on the list can send a message and thus this service becomes interactive. List subscribers have a convenient way to make announcements, to poll members about a certain topic, to ask questions, to promote events, books or new products, or to participate in any discussions regarding a topic proposed by any member.

If you know of any PSA members or non-members who have e-mail but may not be subscribers to this list, we would appreciate your cooperation by informing these individuals about our list and how they can subscribe.

INFORMATION

1. Subscribing. Send an E-mail message to:

ListServ@ColoState.EDU

Your e-mail message does not need a subject, it must be in the body of the message and contain only one line as follows.

subscribe PSA firstname lastname

For example:

subscribe PSA Jane Doe

2. Unsubscribing. Send an E-mail message to:

ListServ@ColoState.EDU

Your e-mail message does not need a subject, it must be in the body of the message and contain only one line as follows:

unsubscribe PSA

3. Sending messages. If you want to send a message to all subscribers of the list, send a message to :

PSA@ColoState.EDU

If you need to know whether your message was sent, and you wish to receive a copy of the message, you can add yourself as a cc: recipient to messages you send.

4. Responses to messages

When you respond to a message, respond only to the person who sent the message, not ListServ or PSA. If you merely specify Reply, then everyone on the list will receive your message. So please be considerate and do not burden the entire listing with a response meant only for one person.

5. Problems. If you have any problems or questions, you may contact Paul Kugrens, who is the manager of this list. His e-mail address will always be listed in the heading.

[Rick McCourt, editor of the PSA Newsletter, tells me that there will soon be a PSA WWW page, too. When it comes online, I'll let you know. The British Psychological Society already is on the Web:

<http://www.dundee.ac.uk/~amjohnst/bps.htm>

- Ed.]

8) News of Colleagues

Founding Member Wins Award

Max Taylor (maxt@unixg.ubc.ca) writes:

"A monograph entitled -A classification of Living and Fossil Dinoflagellates", published last year by the American Museum of Natural History (Micropaleontology Special Publication 7) has earned Rob Fensome, Max Taylor, Geoff Norris, Bill Sarjeant, Dave Wharton and Graham Williams a Golden Trilobite Award from

The Paleontology Society.

good on ya mate, and sorry it took so long for me to get this good word out. I'll have to get my copy now!

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Tim Littlejohn Moving to Sydney, Australia

Tim Littlejohn will be joining the Australian National Genomic Information Service (ANGIS) in November 1995. He will continue to play a role in the ISEP WWW site and in other Internet-based protistology projects, such as the Protist Image Database. He can still be reached at tim@bch.umontreal.ca or at ANGIS directly at tim@angis.su.oz.au

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Changes to Officers's Addresses

PRESIDENT

Mark A. Ragan
NRC Institute for Marine Biosciences
1411 Oxford St
Halifax, Nova Scotia B3H 3Z1
Canada
tel: (1) 902 426 1674
fax: (1) 902 426 9413
e-mail: mark@imb.Lan.nrc.ca
^^^^^^^^^^^^^^^^^^^^^^^^^^^^

[Mark's email has not changed ... but mail received from him may carry the address "mark.a.ragan@nrc.ca" in the header. Use of this address may lead to loss of your mail ... so ignore "mark.a.ragan..." and use "mark@imb...." -Ed.]

PRESIDENT-ELECT

OEjvind Moestrup
Department of Phycology
^^^^^^^^^^^^^^^^^^^^^^^^^^^^
University of Copenhagen
OEster Farimagsgade 2D
DK-1353 Copenhagen K
Denmark
tel: (45) 33 32 67 69
fax: (45) 33 14 57 19
e-mail: moestrup@bot.ku.dk

TREASURER (1995-1996)

Gary W. Saunders
Department of Biology
University of New Brunswick
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Fredericton, N.B. E3B 6E1
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COUNCILLOR-AT-LARGE

Geoff McFadden
Permanent Address
^^^^^^^^^^^^^^^^^^^^^^^^
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University of Melbourne
Parkville, Victoria 3052, Australia
tel: (61) 3 344 5053
fax: (61) 3 347 1071
e-mail: mc_fadden@botany.unimelb.edu.au
Sabbatical Address
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New Entries
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6 - 9 March 1996

Annual Meeting, Section of Phycology, German Botanical Society
Hofgeismar, Germany

Prof. Dr. W. Reisser
Department of Botany
University of Leipzig
Talstrasse 33
D-04103 Leipzig
Germany
fax: (49) 341 960 3099

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27 May - 1 June 1996

Seventh International Conference on the Cell and Molecular Biology of
Chlamydomonas.

Investigators interested in participating are invited to submit abstracts
by January 31, 1996. Please send requests for registration and abstract
materials to:

Chlamydomonas Conference
Dr. Ruediger Schmitt
Institute for Genetics
University of Regensburg
D-93040 Regensburg
Germany
tel: (49) 941 943 3162
fax: (49) 941 943 3163
email: rudy.schmitt@biologie.uni-regensburg.de
WWW: <http://www.uni-regensburg.de/aktuelles/chlamyconf.html>
(the ISEP WWW Archive has a hypertext link to this
page)

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14-19 July 1996
50th Anniversary Meeting of the Phycological Society of
America. University of California, Santa Cruz.

Prof. Lynda Goff
Department of Biology
Earth and Marine Science Building
University of California
Santa Cruz, CA 95064
tel: (1) 408 459 2832
fax: (1) 408 459 4882
email: goff@orchid.ucsc.edu

10) ISEP Membership Form

The International Society for Evolutionary Protistology welcomes
all persons interested in the diversity, taxonomy, phylogeny and
evolution of protists. Here's how to join:

- [1] Make a hard copy of the form below.
- [2] Airmail it, with your dues, to the ISEP Treasurer.
- [3] Send Tim Littlejohn (tim@bch.umontreal.ca; after 1 November,

tim@angis.su.oz.au) or Charley O'Kelly
(cokelly@nsf.gov) a message to let us
know you've signed up.

Step [3] is optional, but it really helps us to keep our records
together!

[snip] - - [snip] - - [snip] - - [snip] - - [snip] - - [snip]

INTERNATIONAL SOCIETY FOR EVOLUTIONARY PROTISTOLOGY
MEMBERSHIP APPLICATION/RENEWAL

Name:

Postal address:

City, state/province, country:

Postal code:

Telephone number:

Fax number:

E-mail address:

Membership dues are US\$ 25 (*) for two years.

[] I enclose for ISEP membership for the years 199__ through
____ .

Signature:

Date:

(*) Please remit US\$ 25 per two years' membership to:

Dr Gary W. Saunders
Department of Biology
University of New Brunswick
Bag Service #45111
Fredericton, N.B. E3B 6E1
Canada

Payment may be made by personal cheque (within the USA),
bank money order or bank draft, international money order,
or postal money order.

Currently, payment must be made in U.S. dollars.

We can accept payment for two, four, or more years.

[snip] - - [snip] - - [snip] - - [snip] - - [snip] - - [snip]

11) New Book Announcement
Prof. Dr. Klaus Hausmann
Institute of Zoology
Department of Protozoology
Free University of Berlin
Koenigin-Luise-Strasse 1-3

D-14195 Berlin, GERMANY
tel: (49) 30 838 6475
fax: (49) 30 838 6477
email: hausmann@fub46.zedat.fu-berlin.de

PROTOZOLOGY

by Klaus Hausmann and Norbert Huelsmann
(Free University of Berlin
Institute of Zoology
Department of Protozoology)
2nd ed., Thieme Verlag, Stuttgart & New York
336 figures with 772 drawings and photographs, 338 pages
hard cover, DM 148,-
ISBN 3-13-1103019 (GTV, Stuttgart, Germany), and
ISBN 0-86577-571-0 (TMP, New York, USA)

F O R E W O R D

by
John 0. Corliss
Protistologist-at-large
Professor Emeritus
University of Maryland

In this day and age of ever-increasing interest in the "lower" eukaryotes - the protists - there is a pressing need for a general textbook that will accomplish two principal goals. Eager students are demanding a clear exposition of the most modern advances in biochemical and molecular biological research on these fascinating microorganisms. At the same time, they want to know what the unicellular algae and protozoa actually look like under the microscope as whole organisms, and what roles they may play in the overall bionomics of life on Earth. Such young biologists are in luck, for the present volume appears to meet those two criteria admirably, and more besides!

Authors Hausmann and Huelsmann are abundantly well qualified to carry out the objectives mentioned above. Their own numerous cytological (including ultrastructural) investigations on a diversity of protists are highly respected by the protozoological community, and their recent forays into various physiological, ecological, systematic, and evolutionary areas have also resulted in significant contributions to the research literature. Their Leeuwenhoekian and Ehrenbergian love for their "wee beasties" is clearly evident throughout the book and is beautifully manifest in the several films that they have produced.

Readers will recall an earlier (1985) edition of Hausmann's Protozoologie and may wonder about differences between that and this newer version. In addition to the obvious fulfillment of "up-dating" in every area treated, there are several outstanding features that deserve brief mention. Most delightful to many budding protozoologists/protistologists around the world, it must be confessed, is the appearance of the new edition in the English language!

There are more than 100 additional pages of text, and each page is larger in size. There are also over 100 additional plates of figures, giving the reader a better visual understanding of both whole organisms and of their numerous organelles as seen in sectioned ultrastructural material. Many of the figures are original, prepared purposely for use in this textbook. There are line drawings, life cycle outlines, etc. in addition to strikingly attractive photo- and electronmicrographs. The authors have even been bold enough to present a phylogenetically-based classification of the protistan groups covered in this book. Undoubtedly, we shall be seeing revisions in this controversial area in the future, with availability of still newer molecular data, but it is salutary to note changes over the past and to see where we stand at the moment in this exciting field of evolutionary protistology.

Hopefully, this Foreword (if read!) will forewarn and foretell the student what to expect:

so, go ahead, turn the page!

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*****  
12) The Second Element  
    Charley O'Kelly  
    cokelly@nsf.gov  
*****
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take a shot and lighten up :-)

I welcome submissions - any funny stories from your own experience or culled from another non-copyrighted source.

this one I'd saved up from earlier in the year ... perhaps it's outdated now, or you've heard it a million times, but I couldn't resist regardless.

...

Perhaps you've read, or heard about, the April 1995 issue of -Discover- magazine, which revealed "Hot-headed naked ice borers", a novel Antarctic vertebrate, to an astonished world. These creatures, which resembled a nightmare version of naked mole rats (computer graphics tools are wonderful inventions), were supposed to use a 110-degree (Fahrenheit, I think) modified forehead to melt ice under penguins ... when the tunnel collapsed, the penguin fell in and was devoured.

It took awhile for some folk to realize that "hot-headed naked ice borers" were really fish. April fish. As French speakers know, an April fish is what the unsuspecting may stumble upon during the first day of April. One ingenious person found a scientific way of exposing the hoax, and distributed it on the bionet.parasitology Usenet newsgroup (I have edited the grammar somewhat):

- > I presented the ice-borer story to some 9th-grade high school science classes. They swallowed the story, hook, line, and sinker - no dissenters at first. We discussed the probable life histories, ecology, etc. of the animals, always with the teacher working the discussion towards energetics. Finally, we considered the energy required for an ice borer to melt ice tunnels, and the energy available from the food source (penguin burgers, hold the condiments and rolls).
- > Basic ingredients for energetics scenario:
- > $1 \text{ Cal} = 10^3 \text{ cal} = 4 \times 10^3 \text{ Joules}$
- > a quarter-pound penguin burger = $3 \times 10^2 \text{ Cal}$
(assume penguin = duck)
- > $3 \times 10^2 \text{ Cal/burger} \times 4 \times 10^3 \text{ J/Cal} = \text{about } 10^5 \text{ J/burger}$
- > Tunnel to catch a penguin estimated to be (on average) 2m; diameter 6cm
- > Tunnel volume = $2 \times 10^3 \text{ cm} (l) \times \pi (3 \text{ cm})^2 = \text{about } 5.4 \times 10^4 \text{ cm}^3$
- > At about $3 \times 10^2 \text{ Joules/cm}^3$ to melt ice,
 need $1.6 \times 10^7 \text{ J}$ to melt tunnel
- > Divided by Joules/penguin burger = $1.6 \times 10^2 \text{ qtr-lb burgers}$
- > which is 40 lb penguin meat, which sounds to me like two medium-sized penguins.
- > Now, any iceborer that needs to eat two penguins to catch one penguin does not have a favorable future!

> Whereas some may argue that packs of ice borers follow one another
> in the tunnels, I would counter that my energy calculations leave
> out energy needed to maintain body temp in face of steep temp gradient
> from sub-zero ice to ice water to hairless body, and energy needed to
> move/feed/breed/feed young ice borers.

> It was illustrative to students to see that estimation, math, and
> simple physical properties could be used to determine the veracity
> of the ice-borer story.

Nuts. And I had my grant to study the protistan parasites of these things
more than half written! Oh, well.
